Introduction 3-2
WattStation™ and WattStation™ Connect
Overview, Features and Benefits 3-3
WattStation™ EV Charger Specifications and Ordering Information 3-4
Networked WattStation™ Wall Mount EV Charger Specifications and Ordering Information 3-5
WattStation™ Connect Specifications and Ordering Information 3-6
WattStation™ Wall Mount
Overview, Features and Benefits 3-7
Specifications and Ordering Information 3-8
DuraStation™ EV Charger
Overview, RFID Option and Mounting Options 3-9
Features and Benefits, Specifications, Ordering Information 3-10
DuraStation™ and RFID
Overview 3-11

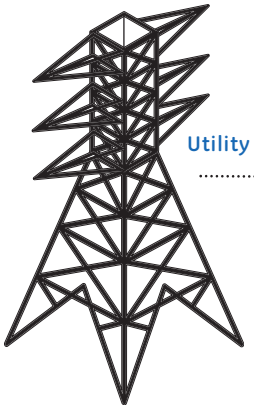
The Expanded EV Pipeline

Over the next five years, virtually every automobile manufacturer in the world plans to introduce a plug-in hybrid or battery electric vehicle. They will convert existing models and introduce new models.

A Total EV Infrastructure Solution

The charging stations where consumers power their EVs are just the most visible element of the extensive infrastructure needed to support the transition to energy-powered automobiles. In addition to its EV charging stations, GE offers a wide range of large- and small-scale electrical distribution products including transformers, switchgear, switchboards, and residential load centers needed to ensure end-to-end system protection and reliability.

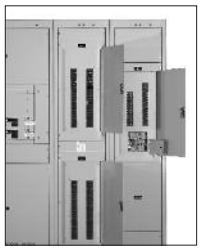
GE's 100 years of innovation in the design and manufacture of electrical distribution equipment means that you can depend on GE products to help move power to EVs as efficiently and as safely as possible — and to take full advantage of smart grid design and other emerging technologies. We have a full range of electrical distribution products required to support EV deployment, including:



Utility Supply

Utility Transformers

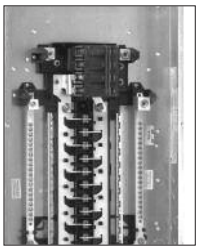
Switchgear



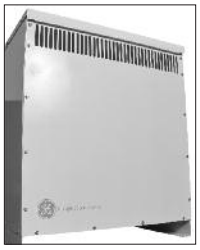
Switchboards and Panelboards

Submetering

EV Charging Stations



Load Centers



General Purpose Transformers

Electric Vehicle Charging Stations
WattStation™ and WattStation™ Connect
Overview, Features and Benefits

Overview

Take your EV infrastructure project to the next level with GE's Networked WattStation and WattStation Wall Mount EV chargers and WattStation Connect. These integrated hardware and service solutions can help manage your charging stations remotely, generate valuable reports, and engage with customers in new and meaningful ways.

Product Features and Benefits

The WattStation

—Modern design: With its modern, sleek design, the award-winning GE WattStation will fit into any commercial, public or retail location. And it's sure to turn heads.
—Retractable cord: The unique cord management system ensures that the WattStation's cord is easy and safe to stow away from pedestrian walkways, providing protection between uses.
—Modular upgrades: GE has developed the WattStation solution so it can easily grow to meet your future needs. Its modular design simplifies in-field upgrades and ensures that your EV charging facility can expand without the need for costly replacement equipment.
—Safety first: WattStation delivers peace of mind with ground fault protection. It features a NEMA 3R indoor/outdoor rating and meets all UL and fire safety standards.
—Easy to use: The product offers Level II charging with service needs of 208-240Vac at 40A. The sleek user interface and LED indicator lights offer users a simple and clear way to identify when the WattStation is available for use, charging the EV, or if a fault has occurred.

The Networked WattStation Wall Mount

—The cord management system allows for the cord to be wrapped around the unit and neatly stowed. During times when the charger is not plugged into a vehicle the connector is plugged into the WattStation.
—The networked wall mount allows for easy installation through a wall mount bracket and a 240Vac plug.
—Monitoring, configuration and control using WattStation Connect
—All WattStations come with Radio Frequency Identification (RFID) functionality. RFID allows users to gain authorization to the charger by waving a RFID card in front of the RFID reader.
—The WattStation has 2 different offerings for network communication:
  – WiFi and CAT 5 Ethernet
  – Cellular CDMA for Verizon and CAT 5 Ethernet
—A unique identification code (QR code) on each WattStation allows drivers to scan the charger with their smartphone and GE WattStation mobile application in order to access instructions on the charger, download charger status and authorize charger use.

WattStation Connect

—Manage, monitor and maintain: The web enabled (Cloud based) WattStation Connect is accessible from any desktop or web enabled device and provides WattStation and Networked WattStation Wall Mount owners a user-friendly method to configure, control and monitor their charging station network. Timely information about the state of their charging stations gives owners the ability to diagnose and manage problems remotely. The ability to define and set pricing plans for the use of their charger is also included.
—Access control and payment options: Radio Frequency Identification (RFID) technology provides secure access to charging stations. EV owners can select and pay using our WattStation Connect App.
—Web Services (API): WattStation Connect can be interfaced to your current building management, HR or fleet systems using an Application Programming Interface (API) to provide an integrated solution with no need to change your current processes.

Electric Vehicle Charging Stations
WattStation™ EV Charger
Specifications and Ordering Information

Specifications

SAE Compliant	Level II per J1772
Vehicle Interface	SAE J1772 EV connector
Cable Length	15' 6"
AC Max Charging Power Output**	7.2 kW (240Vac @ 30A)
Voltage and Rated Current	208-240Vac @ 30A
AC Power Input	208-240Vac requiring only Line 1 and Line 2, or Line and Neutral, and Earth ground
Short Circuit Rating	5kA @ 240Vac
Recommended Service Panel Breaker	2-pole 40A breaker on dedicated circuit
Ground Fault Protection	Internal 20mA CCID with auto-re-closure, does not require a GFCI in service panel
Cold Load Start	Random start up between 0 and 5 minutes
Local Area Network	IEEE 802.3 ("Ethernet") compliant: 10BASE-T, 100BASE-TX
Network Communication Protocol	TCP/IP
Network Security	GE recommends that network be VPN and Firewall protected
Cellular Router (Optional)	EV-DO / HSPA
WiFi (Optional)	IEEE 802.11b/g compatible with Antenna
Metering Accuracy	< +/-2% accurate for all values (Current, Voltage, Power & Energy)
RFID Reader	HID MultiClass RP15
Display	LED Icon
Standby Power	25W typical
Outdoor Rated	Enclosure NEMA 3R
Safety Compliance	UL 2231, UL 2251, UL 2594, cUL 2231, cUL 2594, NEC 625, SAE J1772, ETL and CETL listed
Surge Protection	6kV @ 3000A
EMI Compliance	FCC Part 15 Class A
Operating Temperature	-30°C to +50°C ambient (Operating temp. limit for cord reel is -15°C)
Operating Humidity	Up to 95% non-condensing
Approximate Shipping Weights	120 lb
Dimensions	51"H x 15"Dia

Ordering Information

Type	Product No.
Pedestal Assembly - CAT5 (ethernet only)	EVWPR3GEXXGB
Pedestal Assembly - WiFi + CAT5	EVWPR3GWXXGB
Pedestal Assembly - Cellular CDMA for Verizon + CAT5	EVWPR3GZXXGB
Pedestal Assembly - Cellular for Verizon Canada	EVWPR3GFXXGB
Pedestal Assembly - Cellular GSM for Vodafone + CAT5	EVWPR3GFXXGB

Standards Compliance

—SAE J1772
—NEC 625
—UL 2231, 2251, 2594
—NEMA and NIST
—cUL 2594 and 2231

Electric Vehicle Charging Stations
WattStation™ EV Charger
Specifications and Ordering Information

Specifications

SAE Compliant	Level II per J1772
Vehicle Interface	SAE J1772 EV Connector
Cable Length	24.5"
AC Max Charging Power Output**	7.2kW (240VAC @30A)
Voltage and Rated Current	208-240VAC @30A
AC Power Input	208-240VAC requiring only Line 1 and Line 2, or neutral, and Earth ground
Short Circuit Rating	5kA @240VAC
Recommended Service Panel Breaker	2-pole 40A breaker on dedicated circuit
Ground Fault Protection	Internal 20mA CCID with auto re-closure, does not require a GFCI in service panel
Cold Load Start	Random start up between 0 and 5 minutes
Local Area Network	IEEE 802.3 ("Ethernet") compliant: 10BASE-T, 100BASE-TX
Network Communication Protocol	TCP/IP
Network Security	GE recommends that network be VPN and Firewall protected
Cellular Router (Optional)	IEEE 802.11b/g compatible with Antenna
Metering Accuracy	< +/-2% accurate for all values (Current, Voltage, Power & Energy)
RFID Reader	HID MultiClass RP15
Display	Icon Display
Standby Power	25W typical
Outdoor Rated	Enclosure NEMA 3R
Safety Compliance	UL 2231, UL 2251, UL 2594, cUL 2231, cUL 2594, NEC 625, SAE J1772, ETL and CETL listed
Surge Protection	6kV @ 3000A
EMI Compliance	FCC Part 15 Class A
Operating Temperature	-30°C to +50°C ambient
Operating Humidity	Up to 95% non-condensing

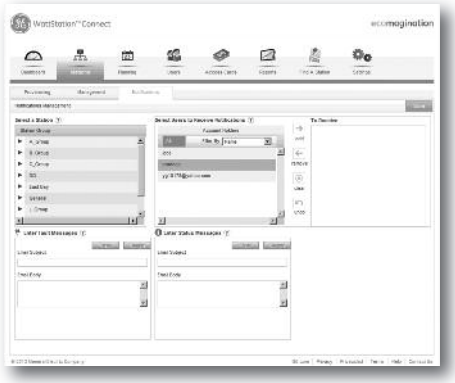
Ordering Information

Description	Product Number
WiFi + CAT5	EVWWR3BWXCGB
Cellular CDMA for Verizon	EVWWR3BZXCGB
Cellular GSM for Vodafone	EVWWR3BFXCGB

Electric Vehicle Charging Stations
WattStation™ Connect
Specifications and Ordering Information

Specifications

Language Settings	English and French
Registration	Drivers: Register by entering your name, email address and create a password (terms and conditions apply) Business Owners: Users may also request access to a business owner domain.
Find station	Locate stations based on address, zip code or dragging the map to your specific area of interest. Users will be able to view stations, availability and station details (pricing, address, owner name, etc)
Dashboard	Take your EV infrastructure project to the next level with the WattStation EV charger and WattStation Connect software. This integrated hardware and software solution can help manage your charging stations remotely, enable EV drivers to find stations at your facilities, generate valuable reports, and engage with customers in new and meaningful ways.
Users	Authorize users, define user groups, manage user accounts
Stations	Provisioning and set-up of new installations, manage stations and update information, set-up notifications.
Planning	Define and create pricing models for stations and user groups. Options include: –Pay Flat Rate. E.g., set a fixed price, regardless of the duration of the charging session. –Pay As You Charge. E.g., set a fixed price for every hour your driver will charge his vehicle. –Pay By Time. E.g., set a fixed price based on the duration (hourly) of each transaction.
Access Cards Management	Manage access cards and user assignments for your charging stations.
Reports	Generate various reports for owners and drivers, such as: –Revenue –Usage –Faults –Transactions
Settings	Update your account information (name, address, contact info, password, etc.) and enroll with PayPal to offer pricing, set up permissions and accept payment for EV charging.
API	WattStation Connect Web Services enable you to integrate data from the WattStation network into your existing systems using an Application Programming Interface (API). For example, you can integrate WattStation Connect with your existing building management or fleet systems.
Mobile Application (EV Driver)	This mobile app provides three functionalities: –Find a Station –Pay for Usage –Account management
Mobile Application (Installer)	This mobile app allows an installer to provision and set-up the WattStation at the installation site.
Mobile Application Availability	–Apple App Store (iPhone IOS 5 or higher) –Android Market (Android OS 2.3x)



Manage, monitor and maintain

Access control and payment options

Web Services

Ordering Information

Type	Product No.
WattStation™ Connect - Corporate HQ	EVSWWC121
WattStation™ Connect - Fleet Management	EVSWWC122
WattStation™ Connect - Commercial Property	EVSWWC123
WattStation™ Connect - Master Package	EVSWWC124
GE Enrollment Reader	EVWPR01
Access Cards - pack of 10	EVRCW10

Functionality

We recommend the following functionality based on our different customer needs.
If you would like all functionality, then please select the Master package option.

Functionality	EV Driver	Corporate HQ	Fleet Management	Commercial Property	Master
Find a Station	●	●	●	●	●
Dashboard		●	●	●	●
Users		●	●	●	●
Stations		●	●	●	●
Access Cards		●	●		●
Planning/ Payment Cards				●	●
Reports	●	●	●	●	●
Settings	●	●	●	●	●
Web Services (APIs)			●		●

All functionality is available for business customers, please consult GE for more information.

Electric Vehicle Charging Stations
WattStation™ Wall Mount
Overview, Features and Benefits

Overview

The WattStation Wall Mount design is suitable for various commercial and residential locations. This product offers Level II charging, which is capable of reducing charge time from 12-18 hours to 4-8 hours, with service needs of 208-240Vac at 40A, assuming a 24kWh battery and a full-cycle charge.

Hardwired, Indoor

Plug In, Indoor/Outdoor

Product Features and Benefits

The WattStation has a wide variety of features that make it reliable and beneficial to users in many different contexts.

—Sleek and modern design
—Wall mounted application
—The cord wraps conveniently around the unit keeping it organized and off of the ground
—Features a NEMA 3R plastic exterior (Plug in version only)
—Option for hardwired unit or plug in unit
—A power button allows the user to completely shut off power to the charging station, resulting in zero energy consumption (Plug in version only)
—A green backlit charging icon will illuminate to signal that the vehicle is charging, and a red backlit icon illuminates to signal a fault has been detected
—An LED light surrounds the connector inlet and will illuminate white when the charging station is powered on
—Mounting brackets are designed for extremely easy install
—An enclosure lock is featured on the mounting brackets to prevent unwanted removal of the enclosure from the wall
—Nuisance tripping avoidance and auto re-closure
—Vehicle Ground monitoring circuit

Standards Compliance

—SAE J1772
—NEC 625
—cETL and ETL listed
—UL 2594
—cUL 2594
—NEMA and NIST
—ADA Compliance

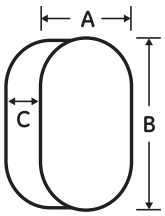
Reference Publications

WattStation Wall Mount Brochure	DEA-528
WattStation Wall Mount Application Guide	DET-746
WattStation Wall Mount Fact Sheet	DEQ-167
WattStation Wall Mount User Manual	DEA-533

Electric Vehicle Charging Stations
WattStation™ Wall Mount
Specifications and Ordering Information

Specifications

SAE Compliant	Level II per J1772
Vehicle Interface	SAE J1772 EV connector
Cable Length	16' cable
AC Charging Power Output	7.2kW
Voltage and Current Rating	208-240Vac @ 30A
AC Power Input	208-240Vac requiring only Line 1, Line 2, and Earth ground
Power Supply Connection	Hardwired, optional 1ft. cord with NEMA 6-50P plug (250Vac, 50A)
Recommended Service Panel Breaker	2-pole 40A breaker on dedicated circuit
Ground Fault Protection	Internal 20mA CCID with auto re-closure, does not require a GFCI in service panel
User Indicators	LED
User Interface	Push button: standby mode (idle until connected to the EV), and off mode (completely de-energizes the unit)
Standby Power	5W typical
Enclosure	NEMA 3R Indoor/Outdoor rated (Plug in only); NEMA 1 Indoor rated (Hardwired)
Safety Compliance	UL 2594, NEC 625, SAE J1772, cUL 2594
Surge Protection	6kV @ 3,000A
EMI Compliance	FCC Part 15 Class A
Operating Temperature	-30°C to +50°C ambient
Operating Humidity	Up to 95% non-condensing
Approximate Shipping Weights	33 lbs (14.969 Kg)
Dimensions	16"W x 24"H x 6"D (40.62cm x 60.96cm x 15.24cm)



Dimensions:
(A) 16 in. / 40.6 cm
(B) 24 in. / 61.0 cm
(C) 6 in. / 15.2 cm

Ordering Information

Type	Enclosure	Product No.
Black, Hardwired	NEMA 3R	EVWSWBH-CP02
Black, NEMA 6-50P Plug	NEMA 3R	EVWSWBC

Electric Vehicle Charging Stations
DuraStation™ EV Charger
Overview, RFID Option and Mounting Options

Overview

The DuraStation's design is suitable for various locations. This product offers Level II charging, which is capable of reducing charge time from 12-18 hours to 4-8 hours, with service needs of 208-240Vac at 40A, assuming a 24kWh battery and a full-cycle charge. GE has more than 100 years of experience in the design and manufacture of electrical distribution products and, as a result, can supply all necessary upstream infrastructure.

Radio Frequency Identification (RFID) Option

The ISO 15693 compliant RFID reader can be used with GE-provided key cards. Users pass their cards in front of the RFID reader on the DuraStation, which sends their identification via Ethernet to the RFID software application running on a remote desktop, which then issues an authorization to start charging.

The RFID software application, running on Windows™ XP or Windows™ 7, enables DuraStation operators to add, remove, or suspend user authorization. In addition, it offers the following benefits:

—Collects data on DuraStation usage, which it stores in a relational database
—Generates reports on DuraStation usage
—Monitors the status of communication with the DuraStation

Mounting Options

—The double pedestal option offers two charging stations in the space of one, so two drivers can charge simultaneously at one station.
—The single pedestal option is designed for parking lots and side-walks, so users can easily access charging stations while in their parking spaces.
—The pole option is for areas where restrictive sidewalk space calls for alternative solutions. This option can be mounted on a lamppost or any other structure.
—The wall option is for areas with limited floor space and for residential garages. Parking garage owners can install wall mounted units to provide drivers with the ability to charge while parked.

Single-pedestal Mounting Option

Double-pedestal Mounting Option

Pole-mounting Option

Wall-mounting Option

Electric Vehicle Charging Stations
DuraStation™ EV Charger
Features and Benefits, Specifications, Ordering Information

Product Features and Benefits

The DuraStation's basic features are upgradeable, resulting in a robust and reliable solution for EV charging infrastructure.

—The cord holder keeps the cord organized and out of the way of parking spaces, sidewalks and streets.
—LEDs display status: Green = Station active; Blinking green = Vehicle connected, not charging; Amber = Charging; Red = Fault occurred.
—Option for a Radio Frequency Identification (RFID) reader: users will gain charging authorization by waving RFID cards in front of the readers.
—Ethernet network offered for RFID authorization.
—RFID software registers usage of the DuraStation, enabling data collection and monitoring status of communication between RFID and DuraStation.
—Vacuum Fluorescent Display (VFD) screen shows greetings, instructions and station messages.
—Nuisance tripping avoidance and auto re-closure.
—Vehicle ground monitoring circuit.
—Single phase metering, displayed on included VFD.
—A building ventilation interface signal can be provided to operate facility and garage fans when required.

Standards and Approvals

—SAE J1772
—NEC 625
—UL 2231, 2251, 2594
—cUL 2231, 2594
—NEMA and NIST

Reference Publications

DuraStation Fact Sheet	DEE-524
EV Infrastructure Brochure	DEA-524
DuraStation User Manual/Install Guide	DEH-44160
DuraStation Application Guide	DET-743
DuraStation and RFID Guide	DET-750

Specifications

SAE Compliant	Level II per J1772
Vehicle Interface	SAE J1772 EV connector
Cable Length	20 feet
AC Charging Power Output	7.2kW (240Vac @ 30A)
Voltage and Current Rating	208-240Vac @ 30A
AC Power Input	208-240Vac requiring only Line 1, Line 2, and Earth ground
Short Circuit Rating	5kA @ 240Vac
Recommended Service Panel Breaker	Pole, Wall, Single Pedestal: 2-pole 40A breaker on dedicated circuit
	Double Pedestal: (Qty. 2) 2-pole 40A breaker on dedicated circuit
Ground Fault Protection	Internal 20mA CCID with auto re-closure, does not require a GFCI in service panel
Cold Load Start	Random start up between 0 and 15 minutes
Local Area Network	CAT5 Ethernet
Network Communication Protocol	TCP/IP
Network Security	GE recommends that network be VPN and Firewall protected
Metering Accuracy	2% accurate on voltage and current; 4% accurate on power and energy
RFID Reader	ISO 15693 compliant
Display Screen	Vacuum Fluorescent Display
Standby Power	5W typ.
Indoor Ventilation	Signal provided to turn on facility fans
Outdoor Rated	NEMA 3R
Safety Compliance	UL 2231, UL 2251, UL 2594, cUL 2231, cUL 2594, NEC 625, SAE J1772
Surge Protection	6kV @ 3,000A
EMI Compliance	FCC Part 15 Class A
Operating Temperature	-30°C to +50°C ambient
Operating Humidity	Up to 95% non-condensing
Approximate Shipping Weights	Single Pedestal: 140 lbs
	Double Pedestal: 175 lbs
	Pole: 75 lbs
	Wall: 75 lbs
Dimensions	Single Pedestal: 51.1"H x 14.9"W x 13.8"D
	Double Pedestal: 51.1"H x 14.9"W x 13.8"D
	Pole: 31.52"H x 11.82"W x 11.16"D
	Wall: 31.52"H x 11.82"W x 11.16"D

Ordering Information

All units are 208-240V, 30A out, single phase integrated meter

Type	Enclosure	Connectors	RFID	Product No.
Single Pedestal	NEMA 3R	1	No	EVSN3
			Yes	EVSRN3
Double Pedestal	NEMA 3R	2	No	EVDN3
			Yes	EVDRN3
Pole	NEMA 3R	1	No	EVPN3
			Yes	EVPRN3
Wall	NEMA 3R	1	No	EVWN3
			Yes	EVWRN3

Accessories

Type	Description	Product No.
RFID Reader	Enrollment reader CM5321CL – 13.45MHz (comes with CD and pack of GE RFID cards)	EVRP01
	Enrollment reader CM5325CL USB reader – 125kHz (comes with CD)	EVRP02
	Enrollment reader RP40 (comes with CD and pack of GE cards)	EVRP03
RFID Software	CD with RFID EV100 software	EV100CD
RFID Cards	Pack of 10 white RFID cards	EVRCW10
	Pack of 10 GE-designed RFID cards	EVRCG10

Electric Vehicle Charging Stations DuraStation™ and RFID

Overview

GE DuraStation™ and RFID (Radio Frequency Identification Device)

This serves to identify various types of RFID technology in the market today, and how each of these technologies will function using the HID RFID reader offered as an option with the GE DuraStation.

RFID offered by GE for use with the DuraStation:

HID Reader

GE offers an HID RFID reader as an option on the DuraStation. The HID RFID reader makes it easy for a user to gain charging authorization by simply presenting their RFID card to the reader located on the DuraStation (HID reader No. RP15).

An HID desktop reader is used at the enrollment station to quickly and easily enroll users into the GE RFID EV100 software. Once the user is enrolled in the system, they can use their RFID card to access the DuraStation (based on programmed authorization).

HID Credentials

A credential — card, tag or keyfob — is carried by the user as a unique, secure identifier. For the GE DuraStation, RFID cards are being utilized.

RFID Technology

RFID (Radio Frequency Identification Device) is:

—A method for uniquely identifying an object such as a card, tag or keyfob that carries a unique ID number, or code, referred to as a card format.

—Identification can be made using a wireless (RF, or radio-wave) connection by a reader, meaning no line-of-sight or physical contact is needed between the card and reader.

RFID Reader

EVRP01
EVRP02

DuraStation

EVRCG10
EVRCW10

HID Reader

RF Signal

RFID Credential

RFID Terminology:

Secure Read:
This denotes that the card data that is read by the RFID reader is securely protected by the card's authentication function. This allows the card data to be protected, but does not guarantee the uniqueness of the card data. The uniqueness of the card data (or duplication of it) is determined by which card format is used.

CSN:
Card Serial Number. This is a freely readable, unique number that is embedded into each card at the time of manufacture. While this card number is unique, it carries no security. This may be sufficient for many applications, especially if the transaction processing is performed on the server side.

CHUID Data:
Cardholder Unique Identifier. The contactless ID card data associated with a US Government FIPS-201 ID card. There are three different types of the FIPS-201 card that relate to this standard which the HID reader can read: PIV, TWIC, CAC.

Card Format:
The card format is the data structure that resides in a secure area of the card and is read in a secure manner by the RFID reader if it has the information to do so. There are thousands of card formats, and it is very difficult to know which format is on the card unless the client's security office knows the data and is willing to share it with you or you work with HID to determine the card format. There are generally three classes of card formats:

1. Managed formats: Card numbers are unique within the format type and no duplication will be found in the field. HID does not recommend supporting these card types since there is a potential for duplication within the installed base and it is difficult to determine whether security is compromised.
2. Open Formats: Card numbers are not unique and are duplicated in the field. The most popular unmanaged format is the 26-bit H10301 format that comprises about 50% of the card population.
3. Proprietary Formats: These are jointly owned by HID and the issuing party, such as an integrator or installer. Card data is unique within the format type but is not disclosed to any third party without the express authorization of both HID and the issuing party.

NOTE: As a note of clarification, card formats do not come into play when reading those card technologies in the chart above where CSN is noted as this is not part of the secure area of the card.

GE DuraStation RFID Compatibility

The chart below outlines the RFID reading functionality currently available in both the DuraStation and the enrollment station. Note that the enrollment station offers two different card reader options, each with different card reading capability. See definitions of the terms in the chart noted previously on this page.

The light gray blocks indicate that the card technology is supported. The dark gray blocks indicate that the card technology is not supported. The black block(s) indicate that the current solution does not support this card technology, but can be upgraded to do so without much difficulty.

Card Type		Enrollment Station Options	
		EVRP01*	EVRP02
Contactless Smart Cards (13.56 MHz)	iCLASS	Secure Read	No
	Mifare	CSN	No
	DESfire	CSN	No
	Sony	No	No
	FIPS201	No	No
	ISO14443A	CSN	No
	ISO14443B	CSN	No
	ISO15693	CSN	No
HID Prox (125 kHz)	HID	No	Secure Read

* DuraStation supports all protocols that EVRP01 reader supports.

NOTE: Enrollment reader EVRP01 is the recommended option for customers who are purchasing GE RFID cards.